http://www.tutorialspoint.com/junit/junit execution procedure.htm

This tutorial explains the execution procedure of methods in JUnit which means that which method is called first and which one after that. Here is the execution procedure of the JUint test API methods with the example.

Create a java class file name JunitAnnotation.java in C:\ > JUNIT\_WORKSPACE to test annotation

```
import org.junit.After;
import org.junit.AfterClass;
import org.junit.Before;
import org.junit.BeforeClass;
import org.junit.Ignore;
import org.junit.Test;
public class ExecutionProcedureJunit {
   //execute only once, in the starting
  @BeforeClass
  public static void beforeClass() {
      System.out.println("in before class");
   //execute only once, in the end
  @AfterClass
  public static void afterClass() {
      System.out.println("in after class");
   //execute for each test, before executing test
  @Before
  public void before() {
     System.out.println("in before");
   //execute for each test, after executing test
   @After
  public void after() {
     System.out.println("in after");
   //test case 1
  @Test
  public void testCase1() {
      System.out.println("in test case 1");
   //test case 2
  @Test
  public void testCase2() {
     System.out.println("in test case 2");
```

Next, let's create a java class file name **TestRunner.java** in **C:\ > JUNIT\_WORKSPACE** to execute annotaions

```
import org.junit.runner.JUnitCore;
import org.junit.runner.Result;
import org.junit.runner.notification.Failure;
public class TestRunner {
   public static void main(String[] args) {
     Result result = JUnitCore.runClasses(ExecutionProcedureJunit.class);
     for (Failure failure : result.getFailures()) {
        System.out.println(failure.toString());
     }
}
```

```
System.out.println(result.wasSuccessful());
}
```

Compile the Test case and Test Runner classes using javac

```
C:\JUNIT_WORKSPACE>javac ExecutionProcedureJunit.java TestRunner.java
```

Now run the Test Runner which will run test case defined in provided Test Case class.

```
C:\JUNIT_WORKSPACE>java TestRunner
```

Verify the output.

```
in before class
in before
in test case 1
in after
in before
in test case 2
in after
in after
```

See the above output and this is how the JUnit execution procedure is.

- First of all beforeClass() method execute only once
- Lastly, the afterClass() method executes only once.
- before() method executes for each test case but before executing the test case.
- after() method executes for each test case but after the execution of test case
- In between before() and after() each test case executes.